RRRRRI RRR RRR RRR RRR RRR RRRRI RRRRRI RRRRRI RRRR RR RRR RRR RR RRR RRR RRR RRR RRR RR RRR RRR R	RRRRRRR RRRRRRR RRRRRR RRR RRR RRR RRR	000 000 000 000 000 000 000 000 000 00	UUU UUU UUU UUU UUU UUU UUU UUU UUU UU	NNN NNN NNN NNN NNN NNN NNN NNN NNN NN	N NNN NNN NNN NNN NNN NNN NNN NNNNN NNNNNN	000000 000000 000 000 000 000 000 000	0000 0000 0000 0000 0000 0000 0000 0000 0000	######################################	######################################	
RRR	RRR	UUUUUUUUU	UUUUUU	NNN	NNN NNN	00000	0000	FFF	FFF	
RRR RRR	RRR			NNN	NNN	00000		FFF	FFF	

_\$2

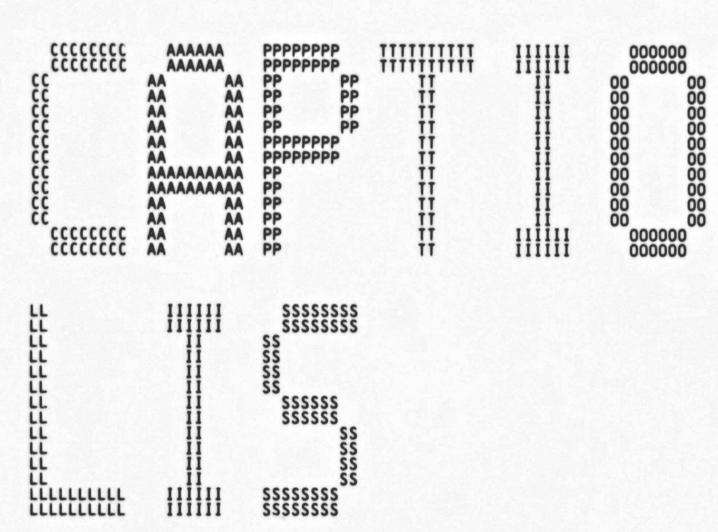
NN NN

NN NN

NN NN NN NN NN I NN I NN I NN NNNN NN NN NN

....

....



CAPT VO4-

```
CAPTION - Generate figure, table and example ca
                                                                       15-Sep-1984 23:50:23
14-Sep-1984 13:05:37
                                                                                                           VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
```

%TITLE 'CAPTION - Generate figure, table and example captions'
!<BLF/NOFORMAT>

MODULE caption (IDENT = 'V04-000' *BLISS32[, ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE, NONEXTERNAL = LONG_RELATIVE)]

BEGIN

! * !*

! *

! * .

<BLF/FORMAT> <BLF/LOWERCASE_USER>
<BLF/UPPERCASE_KEY> <BLF/MACRO>

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FACILITY: DSR (Digital Standard RUNOFF) /DSRPLUS DSRTOC/CONTENTS Utility

ABSTRACT:

format figure, table and example captions

ENVIRONMENT: Transportable

AUTHOR:

JPK

CREATION DATE: March 1982

MODIFIED BY:

007

JPK00010 05-May-1983 Modified CONTENTS to change text for index record group to all caps. Modified CAPTION to change the number of blank lines after the entity title line.

CAPT VO4-

CAPTION V04-000		- Generate fig	ure, table and e	example ca 15-Sep- 14-Sep-	1984 23:50:23 1984 13:05:37	VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1	Page (1)		
59 00 60 00 61 00 62 00 63 00 64 00	0058 1 0060 1 0061 1 0062 1 0063 1 0064 1 0065 1 0066 1 0067 1 0071 1 0072 1 0073 1 0074 1 0077 1 0078 1 0079 1 0081 1 0082 1 0083 1 0084 1 0085 1 0088 1 0088 1	006	JPK00008 Modified CONTE support SEND (guarantee space prologue and e Modified FORMA Modified CNTVN value checking	09-Mar-1983 ENTS and CAPTION to CONTENTS, /DOUBLE ce after section nepilog for RUNOFF to quote only to fix default	o support new Bi SPACE, page numi umber and to wr output. he RUNOFF flags for /DOUBLE_SPAC	RN formats, pered chapters, ite new used by CONTENTS.			
68 69 70 71 72 73	0068 1 0069 1 0070 1 0071 1 0072 1 0073 1	005	- module names - copyright da - facility nam	14-feb-1983 f all sources for are now consista ates have been updated atory was updated	nt with file nam ated ted	: nes t with DSR/DSRPLUS			
75 76 77 78 79 80 81 82	0075 1 0076 1 0077 1 0078 1 0079 1 0080 1 0081 1	004	modules CONTEN Removed declar and CAPTION ar new name INDEN Changed handli	11-Feb-1983 Lobal variable nam NTS, CAPTION, FORM rations of PDENTS nd replaced with a NTS. ing of INDENTS [1] apter and title in	AT and GBLDCL. in modules CNTV/ module wide BI/ . It no longer (MS, CONTENTS, ND using the			
58 590 6123 666 667 777 777 777 788 888 888 888 888	0085 1 0085 1 0086 1 0087 1 0088 1	003	KFA00002 Modified CNTVM new syntax for stored in the where 0 = chap	REQ to handle are now DENT []], indent, etc.					
		002	KFA00001 Modified CONTE headers, examp	13-Oct-1982 ENTS and CAPTION to bles, figures, & t	N to allow null captions for B tables.				
96 97 98 99	0093 1 0094 1 0095 1 0096 1 0097 1 0098 1 0099 1	TABLE OF CON	TENTS:						
93 94 95 96 97 98 100 101 102 103 104 105 106 107 108 109 110	0100 1 0101 1 0102 1 0103 1 0104 1 0105 1	FORWARD ROUTING hdr_x : NOV stchdr : NOV strip : NOV insrnt : NO	ALUE, DVALUÉ, ALUE, DVALUÉ;		! Process Figur ! Process SEND ! Remove leadin ! Insert text of	re, Table and Example captions TOC temporary file ng and trailing whitespace directly into output file			
106 107 108 109	0106 1 0107 1 0108 1	INCLUDE FILES	S:						
110	0110 1	LIBRARY 'NXPOR	:XPORT';						
112	0112 1 0193 1	REQUIRE 'REQ:PA	AGEN';		! Page reference	e format			
114	ŏ194 i	REQUIRE 'REQ:TO	CRTY';		! Table of Cont	ents file formats			

CAP1

```
CAP
VO4
```

Page

(1)

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                                              VAX-11 Bliss-32 V4.0-742 

[RUNOFF.SRC]CAPTION.BLI;1
                                  REQUIRE 'REQ: CNTCLI':
                                                                                                       ! Command line information block formats
   MACROS:
                     MACRO
                                          Write a character to output line
                                        write_char (ch) [] =
BEGIN
CH$WCHAR_A (ch, lp);
intlin = .intlin + 1;
                                              %IF NOT %NULL (%REMAINING)
                                                   extlin = .extlin + 1;
                                             END
                                          Write a text literal to the output line
                                        literal_text (str) = BEGIN
                                             CH$MOVE (%CHARCOUNT (str), CH$PTR (UPLIT (str)), .lp); lp = CH$PLUS (.lp, %CHARCOUNT (str)); intlin = .intlin + %CHARCOUNT (str);
                                          Pad the output line with blanks
                                       pad (n_blanks) = BEGIN
                                             IF n_blanks GTR 0 THEN
                                                   BEGIN
                                                   CH$FILL (%C'', n_blanks, .lp);

lp = CH$PLUS (.lp, n_blanks);

intlin = .intlin + n_blanks;
                                                   extlin = .extlin + n_blanks;
                                                   END:
                                             END
                                          Clear the text lines being built up.
                                        ctr_line (_) =
                                             lp = CH$PTR (line);
intlin = 0;
```

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
                                                                                                                                                                                                                                                 Page
                             extlin = 0;
     END
                                                      X.
                                                          Insert specified character sequence into file, as is.
                                                      put (str) =
                                                              BEGIN
                                                             $str_copy (string = str, target = tmpstr);
chrout = .chrout + .tmpstr [str$h_length];
$xpo_put (iob = tocoob, string = tmpstr);
                                                                  For TMS output, split the output file if it gets too large
                                                              If .cmdblk [contents$v_tms11] THEN split ();
                                                              END
                                                      %:
                                                  EQUATED SYMBOLS:
                                              LITERAL
                                                      true = 1,

false = 0,

tab = %0'11' : UNSIGNED (8),

rintes = %0'34' : UNSIGNED (8),

infinity = 1^(%BPVAL - 1) - 1;
                                                  OWN STORAGE:
                                                  EXTERNAL REFERENCES:
                                              EXTERNAL
                                                     cmdblk : $contents_cmd,
tocoob : $xpo_iob (),
stciob : $xpo_iob (),
                                                                                                                                               Command line information block IOB for the resulting .RNT file IOB for send toc temp file
                                                      chrout,
                                                                                                                                               Number of characters written to output file
                                                                                                                                               Temporary strings
Length of input text.
"n" from latest .HL n command
Header level counters
Header level display characteristics
                                                      tmpstr : $str_descriptor (),
                                                      txtlen,
                                                     hlist : VECTOR [100],
hldsp : VECTOR [100],
                                                                                                                                               Major record type code
Minor record type code
                                                      minor,
                                                                                                                                              Current page number.
Next SEND TOC 'n' value to process
String constant 'EXAMPLES'
String constant 'FIGURES'
String constant 'TABLES'
String constant 'Examples'
String constant 'Figures'
                                                      pagen : page_definition,
                                                      nxtstc.
                                                      rno_ex : $str_descriptor (),
rno_fg : $str_descriptor (),
rno_tb : $str_descriptor (),
tms_ex : $str_descriptor (),
tms_fg : $str_descriptor (),
```

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                                                                                            VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
                                                                                                                                                String constant 'Tables'
Caption prefix
Caption suffix
                              tms_tb : $str_descriptor (),
prestr : $str_descriptor (),
sfxstr : $str_descriptor (),
     Caption suffix
CH$PTR along line being built up
Number of characters needed to represent text
Number of resulting print positions
Buffer in which line is being built up.
Number of characters in the converted page number.
The text (lots of room)
A CH$PTR (working pointer)
Number of characters in the converted section number
The text (lots of room)
A CH$PTR (working pointer)
Used by ENDWRD for controlling filling lines.
Wrap long lines around to here.
Assume this standard indentation before the text.
                                                       intlin.
                                                       extlin,
                                                        line : VECTOR [CH$ALLOCATION (10000)].
                                                       lenpag,
txtpag : VECTOR [CH$ALLOCATION (50)],
                                                       ptrpag,
lensct,
                                                       txtsct : VECTOR [CH$ALLOCATION (150)],
                                                       ptrsct.
                                                       rmargin,
                                                       wrap,
line_indent;
                                                       indents = cmdblk[contents$ag_hl_indent] : VECTOR;
                                              EXTERNAL ROUTINE
split: NOVALUE,
fmttxt: NOVALUE,
insref: NOVALUE,
                                                                                                                                                 Start new output file for TMS Generate formatted text
                                                                                                                                                 Insert a page reference
                                                       pacpag, pacbas,
                                                                                                                                                 format a page number
                                                                                                                                                 Convert a number to ASCII
                                                       pacsec,
                                                                                                                                                 Format a section number
                                                       pacxxx:
                                                                                                                                             ! Format a number using display code
                                              XIF XBLISS (BLISS32)
                                              EXTERNAL ROUTINE
                                                                                                                                             ! File open error handling routine
                                                      open_error;
                                          1 %FI
```

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 HDR_X - Process .HEADER x captions 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                                                  VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
                                                                                                                                                                                       Page
                                   %SBTTL 'HDR_X - Process .HEADER x captions'
GLOBAL ROUTINE hdr_x (
   iob : REF $xpo_iob (),
   title : REF $str_descriptor (),
   info,
    txt.
                                         txt_u
) : NOVALUE =
                                      FUNCTIONAL DESCRIPTION:
                                               This routine processes the .HEADER x Captions
                                      FORMAL PARAMETERS:

    address of temp file iob
    address of string descriptor of title
    information record type

                                               iob
                                               title
                                               info
                                                           - text record type
                                               txt
                                               txt_u
                                                          - unnumbered text record type
                                      IMPLICIT INPUTS:
                                               cmdblk - command line information block
                                      IMPLICIT OUTPUTS:
                                               None
                                      ROUTINE VALUE:
                                      COMPLETION CODES:
                                               None
                                      SIDE EFFECTS:
                                               None
                                         BEGIN
                                        LOCAL first_record;
                                         If .cmdblk [contents$g_headers] EQL 0 THEN RETURN;
                                        first_record = true;
$xpo_open (iob = .iob, options = input, attributes = BINARY
ZIF XBLISS (BLISS32) XTHEN , failure = open_error XFI
                                        WHILE $xpo_get (iob = .iob, fullwords = 2) EQL xpo$_normal DO BEGIN
                                                 Process a record group
```

CAPT VO4-

```
CAPTION
VO4-000
                    CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 HDR_X - Process .HEADER x captions 14-Sep-1984 13:05:37
                                                                                                                 VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI:1
                                                                                                                                                               Page
   BIND
                                              record_header = .iob [iob$a_data] : VECTOR;
                                         major = .record_header [0];
minor = .record_header [1];
                                         SELECTONE true OF
                                              SET
                                              [(.major EQL maj_runoff) AND (.minor EQL min_page)] :
                                                   BEGIN
                                                     Process a page reference
                                                   $xpo_get (iob = .iob, fullwords = page_sct_size);
BEGIN
                                                   BIND
                                                        page_ref = .iob [iob$a_data] : VECTOR;
                                                   MAP
                                                        pagen : VECTOR;
                                                   INCR i FROM 0 TO page_sct_size - 1 DO
    pagen [.i] = .page_ref [.i];
                                                   END;
END;
                                              [.major EQL maj_send_contents] :
                                                     Process a SEND CONTENTS record
                                                   LOCAL
                                                        type:
                                                   type = .minor<0, %BPVAL/2>;
$xpo_get (iob = .iob, fullwords = 1);
txtlen = ..iob [iob$a_data];
                                                                                                     ! Get length
                                                   IF .txtlen GTR 0
                                                   THEN
                                                        $xpo_get (iob = .iob, fullwords = CH$ALLOCATION (.txtlen));
                                                   IF .type EQL scon_comm
                                                           A command. Insert directly into table of contents
                                                        put ((.txtlen, CH$PTR (.iob [iob$a_data])))
                                                   ELSE
                                                        BEGIN
                                                           Text. Format it.
                                                        If .first_record
```

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 HDR_X - Process .HEADER x captions 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                             VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
                                                                                                                                                          Page
   BEGIN
                                                              First one seen - generate title
                                                            IF .cmdblk [contents$v_tms11]
                                                                BEGIN
                                                                put ('');
                                                                If .hl_n NEQ 0 THEN put ('[va15]');
                                                                put ($str_concat ('*cOn*', .title, 'aa'));
END
                                                           ELSE
                                                                BEGIN
                                                                put ('.TEST PAGE 7');
                                                                IF .hl_n NEQ O THEN put ('.SK2') ELSE put ('.SK1');
                                                                 If .indents [0] NEQ 0
                                                                     put ($str_concat ('.I-', $str_ascii (.indents [0])));
                                                                put (.title);
put ('.BLANK');
END;
                                                           hl_n = 1;
first_record = false;
                                                           END:
                                                         Initialize formatting parameters
                                                      clr_line ();
line_indent = .indents [0];
                                                      extlin = .line_indent;
wrap = .indents [0] + .indents [1];
rmargin = .cmdblk [contents$g_page_width];
                                                      If .cmdblk [.contents$v_tms11]
                                                      THEN
                                                           literal_text ('*c1n*a')
                                                           pad ((.indents [0] + .indents [1] - .extlin));
                                                      IF .type EQL scon_txt THEN
                                                           BEGIN
                                                              Generate the page number so as to get its length.
                                                              This is needed so that the proper number of dots can be supplied.
                                                           ptrpag = CH$PTR (txtpag);
                                                            IF NOT .cmdblk [contents$v_standard_page]
```

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 HDR_X - Process .HEADER x captions 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                             VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
                                                                                                                                                          Page
   lenpag = pacbas (.pagen [sct_run_page], ptrpag, 10)
lenpag = pacpag (pagen, ptrpag);
                                                            END
                                                       ELSE
                                                            lenpag = 0:
                                                         Set limit beyond which words must be wrapped
                                                       rmargin = .cmdblk [contents$g_page_width] - .lenpag - 1;
                                                       wrap = .extlin;
                                                         Scan text(if any) and put it(may be null caption) onto the line.
                                                       fmttxt (.txtlen, CH$PTR (.iob [iob$a_data]));
                                                       If .type EQL scon_txt
                                                       THEN
                                                            insref ()
                                                                                                   ! Insert page reference
                                                       ELSE
                                                            BEGIN
                                                            IF .cmdblk [contents$v_tms11] THEN write_char (%C'a');
                                                            END:
                                                         Now actually put this line of text into the file
                                                       put ((.intlin, CH$PTR (line)));
                                                       clr_line ();
END;
                                                  END:
                                             [(.major EQL maj_runoff) AND (.minor EQL .info)] :
                                                  BEGIN
                                                    A caption information record
                                                  LOCAL
                                                      prefix_len, suffix_len;
                                                    Get caption counter, display descriptor and prefix text length
                                                  $xpo get (iob = .iob, fullwords = 3);
BEGIN
                                                       info_vector = .iob [iob$a_data] : VECTOR [3];
                                                 hllist [0] = .info_vector [0]; ! Save the counter
hldsp [0] = .info_vector [1]; ! the display descriptor
prefix_len = .info_vector [2]; ! and prefix string length
```

CAF

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 HDR_X - Process .HEADER x captions 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                           VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
                                                                                                                                                       Page 10 (2)
   Get prefix text if any
                                                 IF .prefix_len NEQ 0 THEN $xpo_get (iob = .iob, fullwords = CH$ALLOCATION (.prefix_len));
                                                 $str_copy (string = (.prefix_len, CH$PTR (.iob [iob$a_data])), target = prestr);
                                                   Get length of suffix text
                                                $xpo_get (iob = .iob, fullwords = 1);
suffix_len = .(.iob [iob$a_data]);
                                                   Get suffix text if any
                                                 If .suffix_len NEQ 0 THEN $xpo_get (iob = .iob, fullwords = CH$ALLOCATION (.suffix_len));
                                                 $str_copy (string = (.suffix_len, CH$PTR (.iob [iob$a_data])), target = sfxstr);
                                            [(.major EQL maj_runoff) AND (.minor EQL .txt OR .minor EQL .txt_u)] :
                                                BEGIN
                                                   Process the text part of a caption.
                                                LOCAL
                                                     needed_fill;
                                                  first read the number of characters needed to represent the caption
                                                $xpo_get (iob = .iob, fullwords = 1);
txtlen = .(.iob [iob$a_data]); ! Save text length.
                                                   Generate a table of contents entry even if the caption
                                                   has no text associated with it
                                                 If .txtlen NEQ 0
                                                     $xpo_get (iob = .iob, fullwords = CH$ALLOCATION (.txtlen));
                                                   Initialize formatting parameters
                                                clr_line ();
line_indent = .indents [0];
                                                extlin = .line_indent;
wrap = .indents [0] + .indents [1];
rmargin = .cmdblk [contents$g_page_width];
                                                 IF .first_record
                                                THEN
                                                     BEGIN
```

first one seen - generate title

If .cmdblk [contents\$v_tms11]

```
CAPTION
VO4-000
                   CAPTION - Generate figure, table and example ca HDR_X - Process .HEADER x captions
                                                                                                        VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
                                                                                                                                                   Page 11 (2)
   BEGIN put ('');
                                                         If .hl_n NEQ O THEN put ('[va15]');
                                                         put ($str_concat ('*cOn*', .title, 'aa'));
END
                                                    ELSE
                                                         BEGIN
                                                         put ('.TEST PAGE 7');
IF .hl_n NEQ 0 THEN put ('.SK2') ELSE put ('.SK1');
                                                         If .indents [0] NEQ 0
                                                         THEN
                                                             put ($str_concat ('.I-', $str_ascii (.indents [0])));
                                                         put (.title);
put ('.BLANK');
END;
                                                    hl_n = 1;
first_record = false;
                                                    END:
                                               If .cmdblk [contents$v_tms11] THEN literal_text ('*c1n*');
                                               If .cmdblk [contents$v_include_sections]
                                                    AND (
                                                         (.cmdblk [contents$g_sections] GEQ .hl_n)
                                                              (.cmdblk [contents$g_sections] EQL -1)
                                                             AND (.minor NEQ .txt_u)
                                               THEN
                                                    BEGIN
                                                      Generate number if either the user said include
                                                      all header numbers up to some level GEQ 1 or
                                                      header numbers should be displayed as input and
                                                      this was a numbered head.
                                                    ptrsct = CH$PTR (txtsct);
                                                    lensct = 0:
                                                    IF .pagen [sct_typ] NEQ 0
                                                    THEN
                                                         BEGIN
                                                           Document is divided into sections
                                                         lensct = .lensct + pacsec (pagen, ptrsct) + 1;
CH$WCHAR_A (%C'-', ptrsct);
                                                    lensct = .lensct + pacxxx (.hllist [0], ptrsct, .hldsp [0]);
```

```
F 10
15-Sep-1934 23:50:23
14-Sep-1984 13:05:37
CAPTION
VO4-000
                 CAPTION - Generate figure, table and example ca HDR_X - Process .HEADER x captions
                                                                                                 VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
   Write the prefix string if any
                                                 IF .prestr [str$h_length] NEQ 0
                                                     fmttxt (.prestr [str$h_length], .prestr [str$a_pointer]);
                                                  Write the entity number
                                                 fmttxt (.lensct, CH$PTR (txtsct));
                                                  Write the suffix string if any
                                                 IF .sfxstr [str$h_length] NEQ 0
                                                 THEN
                                                     BEGIN
                                                     IF CH$NEQ(1,CH$PTR (UPLIT(%C':')),
                                                          sfxstr [str$h_length], .sfxstr [str$a_pointer])
                                                          fmttxt (.sfxstr [str$h_length], .sfxstr [str$a_pointer]);
                                                     END:
                                                 IF NOT .cmdblk [contents$v_tms11] THEN write_char (%C' ', counts_visually);
                                            IF .cmdblk [contents$v_tms11]
                                                 write_char (%C'a')
                                            ELSE
                                                pad ((.indents [0] + .indents [1] - .extlin));
                                              Generate the page number so as to get its length.
                                              This is needed so that the proper number of dots can be supplied.
                                            ptrpag = CH$PTR (txtpag);
                                            IF NOT .cmdblk [contents$v_standard_page]
                                            THEN
                                                BEGIN
                                                  Use the running page counter instead of a real page number.
                                                 lenpag = pacbas (.pagen [sct_run_page], ptrpag, 10);
                                                 END
                                            ELSE
                                                 BEGIN
                                                  Supply the usual page number.
                                                 lenpag = pacpag (pagen, ptrpag);
```

```
CAPTION
VO4-000
                    CAPTION - Generate figure, table and example ca HDR_X - Process .HEADER x captions
                                                                                                                   VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI:1
   Set limit beyond which words must be wrapped
                                                    rmargin = .cmdblk [contents$g_page_width] - .lenpag - 1;
                                                    wrap = .extlin;
                                                      Scan text(if any) and put it(may be null caption) onto the line.
                                                     fmttxt (.txtlen, CH$PTR (.iob [iob$a_data]));
                                                      Insert page reference into line if desired.
                                                     insref ():
                                                      Now actually put this line of text into the file
                     0994
0995
0996
0997
0998
0999
1000
1001
1002
1003
                                                    put ((.intlin, CH$PTR (line)));
clr_line ();
END;
                                              TES:
                                         END:
                                    $xpo_close (iob = .iob, options = remember);
                                                                                                          CAPTION CAPTION - Generate figure, table and ex
                                                                                                                     ample ca
                                                                                                          \V04-000\
                                                                                                 .IDENT
                                                                                                .PSECT $PLIT$, NOWRT, NOEXE, 2
                                              5D
                                                                                                           \[va15]\
                                                         31
6E
                                                              61
30
                                                                   7630433392
                                                                         5BA02EEEE
                                                                                                           \*c0n*\
                         45 47 41
                                                              45
48
48
20
4
                                         50
                                              20
                                                                                                           1. TEST PAGE 71
                                                                                      P.AAM:
                                                    4E
                                                         41
                                                                                     P.AAO:
                                               4B
                                                                                                           \.BLANK\
                                                                                     P.AAP:
P.AAQ:
P.AAR:
                                                                   63
                                                              31
                                         00
                                                         6E
                                                                                                           \*c1n*a\<0><0>
                                                         31
6E
                                                                   7630433392
                                                                         5BA0EEEEE
                                                                                                           \[va15]\
                                                                                                           \*c0n*\
                                                              45
48
48
20
4
                         45 47 41
                                         50
                                              20
                                                                                                           1.TEST PAGE 71
                                                                                     P.AAZ:
P.ABA:
P.ABC:
P.ABE:
                                                                                                          \.SK2\
                                                    4E
                                               4B
                                                                                                           \.BLANK\
                                                                 0000003A
                                                                                     P.ABF:
P.ABG:
                                         00
                                              00
                                                   2A
                                                         6E
                                                                                                           \*c1n*\<0><0><0>
                                                                                                 .LONG
```

00062 00064 00068

0006A

SSTRSSTRING:

.WORD

ADDRESS P.AAV

12, 1

01 OE

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 HDR_X - Process .HEADER x captions 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                                                                                                                     VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI:1
                                                                                                                                                                                                                                                                                     Page
                                                                                                                                     0006C ADDI
                                                                                                                                                                       ADDRESS P.AAY
                                                                                                                01 0E 00072 BYTT
00006000 00074 ADDI
0004 00078 $STR$STRING:
                                                                                                                                                                      .BYTE
                                                                                                                                                                       ADDRESS P.AAZ
                                                                                                               01 0E 0007A .BYTE
00000000 0007C .ADDRE
0003 00080 $STR$STRINGO:
                                                                                                                                                                      ADDRESS P.ABA
                                                                                                                                                                     .WORD 3
.BYTE 14, 1
.ADDRESS P.ABC
                                                                                                               00000000 00084
0006 00088
                                                                                                                                                   $STR$STRING:
                                                                                                                                                                      . WORD
                                                                                                               01 OE
                                                                                                                                     A8000
                                                                                                                                                                      .BYTE
                                                                                                                                                                      .ADDRESS P.ABE
                                                                                                                                                                                      CMDBLK, TOCOOB, STCIOB CHROUT, TMPSTR, TXTLEN HL N, HLLIST, HLDSP MAJOR, MINOR, PAGEN NXTSTC, RNO_EX, RNO_FG RNO_TB, TMS_EX, TMS_FG TMS_TB, PRESTR, SFXSTR LP, INTLIN, EXTLIN LINE, LENPAG, TXTPAG PTRPAG, LENSCT, TXTSCT PTRSCT, RMARGIN WRAP, LINE INDENT SPLIT, FMTTXT, INSREF PACPAG, PACBAS, PACSEC PACXXX, OPEN_ERROR XPOSOPEN, XPOSGET XPOSFAILURE, XST$COPY STR$FAILURE, XPOSPUT XST$JOIN, XST$ASCII XPO$CLOSE
                                                                                                                                                                      .EXTRN
                                                                                                                                                                      .EXTRN
                                                                                                                                                                      .EXTRN
                                                                                                                                                                      .EXTRN
                                                                                                                                                                      .EXTRN
                                                                                                                                                                       .EXTRN
                                                                                                                                                                       .EXTRN
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                                                                                                                                                                       EXTRN
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EXTRN
                                                                                                                                                                      .EXTRN
.EXTRN
.EXTRN
                                                                                                                         OFFC 00000

9E 00002

C2 00009

D5 0000C

12 00012

04 00014

D0 00015

D0 00018

C8 0001C

90 00024

1F 00028

4 0002E

0 00030

0 00039

0 00030
                                                                                                                                                                      .PSECT
                                                                                                                                                                                      $CODE$, NOWRT, 2
                                                                                                                                                                                      HDR X, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
$STR$TARGET, R11
#8, SP
CMDBLK+4
                                                                                                                                                                      .ENTRY
                                                                                                                                                                                                                                                                                              0582
                                                                                                                                                                     MOVAB
SUBL2
                                                                                             0000000G
                                                                                              0000000G
                                                                                                                                                                      TSTL
                                                                                                                                                                                                                                                                                              0627
                                                                                                                                                                     BNEQ
RET
                                                                                                                                                                                      #1, FIRST_RECORD
10B, R6
#65537, 46(R6)
#1, 44(R6)
OPEN_ERROR
-(SP)
                                                                                       5A
56
A6
A6
                                                                                                                               0629
                                                                                                                                                                      MOVL
                                                                                                                                                                      MOVL
                                                                                             00010001
                                                                                                                                                                     BISL2
                                                                                                                                                                      MOVB
                                                                                              0000000G
                                                                                                                                                                     PUSHAB
                                                                                                                                                                     CLRL
                                                                                                                                                                                       R6
#3, XPO$OPEN
56(R6), R8
#8, 52(R6)
                                                                                                                                                                     PUSHL
                                                                                       58
A6
                                                              0000000G
                                                                                                                                                                      CALLS
                                                                                                           38
                                                                                                                                                                      MOVAB
                                                                                                                                                                                                                                                                                              0640
0634
                                                                            34
                                                                                                                                      0003D 2$:
                                                                                                                                                                     MOVW
```

CAPTION V04-000	HUK_X -	Pro	36 20	A6 A6	, table and captions							Page 1
			50	A6	0000000G	06 EF 7E	90 9F 04	00045 00049 0004F		MOVB PUSHAB CLRL	#2, 54(R6) #6, 44(R6) XPOSFAILURE -(SP)	
			00000000G 00208001	EF 8F		5030	FB 01 13	00051 00053 0005A 00061		PUSHL CALLS CMPL BEQL	M3. XPOSGET R0. #2129921	
			00000000G	50 EF	04	26FE630308001	00004	00066 00069 00070	3\$:	MOVL MOVL CLRI	74\$ (R8), R0 (R0), MAJOR 4(R0), MINOR	064 064 064
				02	000000006		1200	0007A 00081 00083 00085	45:	CMPL BNEQ INCL	MAJOR, #2 4\$ R1 R0	. 004
				01	0000000G	EF 02 50	D1 12 D6	00087 0008E 00090		CMPL BNEQ INCL	MINOR. #1	
				52 50 01		52	CA D1 12	00092 00095 00098	55:	BICL2 CMPL BNEQ	7\$ R0 R1, R2 R2, R0 R0, #1	
			34 36 20	A6 A6 A6	000000006	E055E0555553100E7505	99900F013000412641262A12000F40B40	00041 00044 000049 000053 000066 000067 000068 000088 000099 000088 000099 00008 0008		MOVB MOVB PUSHAB PUSHAS PUSHLS PUSHLS BROVL MOVL MOVL MOVL BNCCH B	#16, 52(R6) #2, 54(R6) #6, 44(R6) XPO\$FAILURE -(SP)	065
			00000000G 00000000GE	EF F40	00 B8		DD FB D4	000B1 000B3 000BA 000BC	65:	PUSHL CALLS CLRL MOVL	#3, XPOSGET	066 066
		F2		50	000000006 ^{FF}	03 70 EF 03	F3	000C6 000CA 000CD 000D4	7\$:	AOBLEQ BRW CMPL REQL	#3, I, 6\$ 2\$ MAJOR, #4	064 066
			34 36 20	59 A6 A6 A6	000000006	4D EF 04	31 30 80	000D6 000D9 000E0 000E4	8\$:	BRW MOVZWL MOVW MOVB	10(R8)[I], PAGEN[I] #3, I, 6\$ 2\$ MAJOR, #4 8\$ 35\$ MINOR, TYPE #4, 52(R6) #2, 54(R6) #6, 44(R6) XPOSFAILURE -(SP) R6	067 067
			ŽČ	A6	0000000G	06 EF 7E	90 9F 04	000E8 000EC 000F2		MOVB PUSHAB CLRL	#6. 44(R6) XPOSFAILURE -(SP)	
			00000000G	EF 50	00000000G	03 B8 EF	FB DO DO	000F6 000FD 00105		CALLS MOVL MOVL	#3, XPOSGET a0(R8), TXTLEN TXTLEN, RO	067 067
	34	A6	36	50 50 86 86		DF426FE638F434426FE6	33B999DDFDD506500F4D	000CA 000CD4 000D4 000D6 000D9 000E4 000E4 000FD 001DE 001DE 0011D 0011D 00127 00127		AOBLEQ BRW CMPL BEQL BRW MOVB MOVB MOVB PUSHAB CLRL PUSHL CALLS MOVL BLEQ ADDL2 MULW3 MOVB PUSHAB CLRL PUSHL CALLS MOVL BLEQ ADDL2 MULW3 MOVB PUSHAB CLRL PUSHL	-(SP) R6 #3, XPO\$GET a0(R8), TXTLEN TXTLEN, R0 9\$ #3, R0 #4, R0 #4, R0, 52(R6) #2, 54(R6) #6, 44(R6) XPO\$FAILURE -(SP) R6	068
			36	A6	0000000G	06 EF 7E	90 9F 04	00110 00121 00127		MOVB PUSHAB CLRL	#6, 44(R6) XPOSFAILURE -(SP) R6	

MOVB

PUSHAB

0000000G

002E2 002E4 002EA 002EC 002EE

002F6 002FC 002FE 00300 00306 19\$: 00308 00306 00312 00312 00312 0032F 0032F 0032F 00332C 003344 00354 00356 00356 00358

0000000G

0000000G

00000000

0000000G

00000000

0000000G

0000000G

0000000G

0903

EF 50

7E

0000000G

000000006 000000006 000000006

00000000G 00000000G 00000000G

#0, SPLIT HL N 18\$

-(SP)

19\$

-(SP)

-(SP)

-(SP)

-(SP)

STR\$FAILURE

\$STR\$STRING

STR\$FAILURE

\$STR\$STRING

#5, XST\$COPY

RO, CHROUT \$10B\$OUTPUT, 10B\$+68 \$7, 10B\$+44 XPO\$FAILURE

10B\$
#3, XPO\$PUT
#1, CMDBLK, 20\$
#0, SPLIT

INDENTS, RO

#2307, -(SP)

CALLS TSTL

BEQL

CLRL

PUSHL

BRB

CLRL

PUSHL

CLRL

CALLS

MOVZWL ADDL2 MOVAB

PUSHAB CLRL

PUSHAB

CALLS BBC CALLS

MOVL

BEQL

PUSHL

MOVB

PUSHAB

PUSHAB

PUSHAB

PUSHAB

CAP VO4

0712

0714

0716

CAPTION - Generate fig HDR_X - Process .HEAD	ure, table an R x captions	M 10 d example ca 15-Sep-1984 23:50:23 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 13:05:37 [RUNOFF.SRCJCAPTION.BLI;1	Page 19 (2)
0000000G	EF	AT AATC	;
0000000G	EF 00000000° 000000006 0801	03 FB 0035D	
00000000G 00000000G 0000000G	EF 50 EF EF EF 00000000G	03 FB 0035D	
07 00000000G 00000000G 00000000G	00000000G EF EF 00000000G	03 FB 003AE CALLS #3, XPO\$PUT 01 E1 003B5 BBC #1, CMDBLK, 21\$ 00 FB 003BD CALLS #0, SPLIT	0718
00000000G 00000000G 00000000G	O8 EF 50 EF EF	5B DD 003CC PUSHL R11 AC DD 003CE PUSHL TITLE 7E D4 003D1 CLRL -(SP) 05 FB 003D3 CALLS #5, XST\$COPY 6B 3C 003DA MOVZWL TMPSTR, R0 50 CO 003DD ADDL2 R0, CHROUT 6B 9E 003E4 MOVAB \$10B\$OUTPUT, IOB\$+68 07 90 003EB MOVB #7, IOB\$+44	
07 00000000G 00000000G 00000000G	00000000G 00000000G EF EF O0000000G	03 FB 00400 CALLS #3, XPO\$PUT 01 E1 00407 BBC #1, CMDBLK, 22\$	0719
00000000G 0000000G 0000000G	00000000° EF 50 EF EF 00000000G	00 FB 0040F EF 9F 00416 22\$: PUSHAB STR\$FAILURE 7E D4 0041C	
07 00000000G 00000000G 00000000G 00000000G	00000000G EF EF EF EF	03 FB 00455 CALLS #3, XPO\$PUT 01 E1 0045C BBC #1, CMDBLK, 24\$ 00 FB 00464 CALLS #0, SPLIT 01 D0 00468 24\$: MOVL #1, HL N 5A D4 00472 CLRL FIRST_RECORD EF 9E 00474 25\$: MOVAB LINE. LP	0722 0723 0729
0000000G	EF 00000000G 00000000G EF 00000000G	EF 9E 00474 258: MOVAB LINE, LP EF D4 0047F CLRL INTLIN EF D4 00485 CLRL EXTLIN EF D0 0048B MOVL INDENTS, LINE_INDENT	0730

006D7

00609

CLRL PUSHL

R6

VO

00000000G

00000000G

#3, XPOSGET LINE, LP INTLIN

MOVAB

CLRL

CAI

0853

CAPTION VO4-000

	enerate fig								Page 24 (2)
	00000000G 00000000G	50 EF EF		6B 30 6B 90 6B 90 6B 90 6B 90 7E 96 7E 96 96 96 96 96 96 96 96 96 96 96 96 96 9	008FE 00901 00908 00906 00916 00916 00928 00933 00940 00942		MOVZWL ADDL2 MOVAB MOVB PUSHAB	TMPSTR, RO RO, CHROUT \$IOB\$OUTPUT, IOB\$+68 #7, IOB\$+44 XPO\$FAILURE -(SP)	
	000000006	EF	00000000	07 90 EF 9F 7E D4	0090F 00916		PUSHAB	#7, IOB\$+44 XPO\$FAILURE	
			00000000	7E 04	0091C		CLRL PUSHAB	1003	
07	00000000G	EF EF		03 FE	00924 0092B		CALLS	#3, XPOSPUT #1, CMDBLK, 50\$	
	00000000G	EF	000000006	00 FE	00933 0093A	50\$:	CALLS	WO. SPLIT	0877
			00000000	EF 9	00940		PUSHAB	HL N 51\$ STR\$FAILURE	
				7E D4	00948		CLRL PUSHL PUSHAB	-(SP) R11	
			00000000.	EF 9F	00940		PUSHAB	\$STR\$STRING 52\$	
			0000000G	EF 9F	0094C 00952 00954 00956 0095C 00966 00960 00970 00977	51\$:	PUSHAB CLRI	STR\$FAILURE -(SP)	
			00000000	7E D4 5B D0 EF 9F	0095C		CLRL PUSHL PUSHAB	R11 SSTRSSTRING	
	00000000	FF		7E D4	00964	52\$:	CLRL	-(SP)	
		EF 50 FF		05 FE 6B 30 50 C0	00960		MOVZWL	#5, XST\$COPY TMPSTR, RO RO CHROUT	
	00000000G 00000000G 00000000G	EF EF		6B 30 50 C0 6B 96 07 90	00977 0097F		CLRL CALLS MOVZWL ADDL2 MOVAB MOVB PUSHAB	RO, CHROUT \$10B\$OUTPUT, IOB\$+68 #7, IOB\$+44 XPO\$FAILURE	
			0000000G	EF 9F	00985 00988		PUSHAB	XPOSFAILURE -(SP)	
	000000006	FF	0000000G	7E D4	00980		CLRL PUSHAB CALLS	IOBS #3, XPOSPUT	
07	00000000G	EF		01 E1	00994		BBC	#1, CMDBLK, 53\$	
		50	000000006	031 000 000 000 000 000 000 000 000 000	009A9	538:	MOVL	MO, SPLIT INDENTS, RO 54\$	0879
				7E D4 50 D0 8F 30	009B2		CLRL	-(SP)	0881
	000000006	7E EF	0903	8F 30	00986 00988		CLRL PUSHL MOVZWL CALLS PUSHL PUSHAB CALLS PUSHAB CALLS PUSHAB	RO #2307, -(SP) #3, XST\$ASCII	
			00000000	50 DD	00902		PUSHL	RO	
	0000000G	EF	00000000	02 FE	009CA		CALLS	\$STR\$STRINGO #2, XST\$JOIN STR\$FAILURE	
			0801	03 FE 50 DD EF 9F 02 FE 7E 04 8F BE 7E 04	00907		CLRL	-(SP) #^M <r0,r11></r0,r11>	
	000000006	FF	0001	7E D4	00900		CLRL CALLS MOVZWL ADDL2 MOVAB MOVB PUSHAB	-(Q2)-	
		50		6B 30	009E6		MOVZWL	TMPSTR, RO	
	00000000G 00000000G 00000000G	EF EF EF		05 FE 6B 30 50 C0 6B 9E 07 90	009F0		MOVAB	#5, XST\$COPY TMPSTR, R0 R0, CHROUT \$IOB\$OUTPUT, IOB\$+68 #7, IOB\$+44 XPO\$FAILURE -(SP)	
	00000000		000000006	FF 9F	009FE		PUSHAB	XPÓSFAILURE	
	000000006		000000006	EF 9F	00A06		PUSHAB	IOB\$	
07	000000006 000000006	EF EF		01 E1	00985 00988 00983 00993 00998 00998 00988 00988 00988 00990 00907		CALLS BBC CALLS	#1. CMDBLK, 54\$	

MOVAB

MOVB

INCL

00000000G 0000000G

0000000G

VO

0919

CAF VO4

CAPTION V04-000	CAPTION - Generate fig HDR_X - Process .HEADE	ure, table an R x captions	d exam	nple ca 1	1 11 5-Sep-1984 23:50 4-Sep-1984 13:05	0:23 VAX-11 Bliss-32 V4.0-742 5:37 [RUNOFF.SRC]CAPTION.BLI;1	Page (2
	00000000G	EF 00000000G	OO EF OE	FB OOCCC BO OOCD3	MOVW	#O, INSREF INTLIN, \$STR\$STRING	: 099
	02 03 04	AE 00000000G	O1 EF EF	90 00CDA 90 00CDE 9E 00CE2 9F 00CEA D4 00CF0	CALLS MOVW MOVB MOVB MOVAB PUSHAB CLRL PUSHAB	INTLIN, \$STR\$STRING #14, \$STR\$STRING+2 #1, \$STR\$STRING+3 LINE, \$STR\$STRING+4 STR\$FAILURE -(SP) R11	
		oc	7E 5B AE 7E	DD 00CF2 9F 00CF4 D4 00CF7	PUSHL PUSHAB CLRL	SSTR\$STRING	
	000000006	EF 50 FF	05 6B	FB 00CF9 3C 00D00 CO 00D03	CALLS MOVZWL	#5, XST\$COPY TMPSTR, RO	
	00000000G 0000000G 0000000G	EF EF 00000000G	6B 50 6B 07 EF	9E 00D0A 90 00D11 9F 00D18 D4 00D1E	CLRL CALLS MOVZWL ADDL2 MOVAB MOVB PUSHAB CLRL PUSHAB CALLS	#5, XST\$COPY TMPSTR, R0 R0, CHROUT \$10B\$OUTPUT, 10B\$+68 #7, 10B\$+44 XPO\$FAILURE -(SP)	
	00000000G 07 0000000G	00000000G	EF 03	9F 00D20 FB 00D26 E1 00D2D	PUSHAB CALLS	IOB\$ #3, XPO\$PUT #1, CMDBLK, 73\$ #0, SPLIT LINE, LP INTLIN EXTLIN	
	07 00000000G 00000000G 00000000G	EF 00000000G 00000000G 00000000G	ÖÖ EF EF	FB 00D35 9E 00D3C	72\$: CALLS 73\$: MOVAB	#0, SPLIT LINE, LP	0996
	-		FZE7	00D4D 31 00D53	BRW	75	0634
	SC SE	A6 00000000G		88 00D56 90 00D5A 9F 00D5E	74\$: BISB2 MOVB PUSHAB CLRL PUSHL	#16, 46(R6) #2, 44(R6) XPO\$FAILURE -(SP)	100
	0000000G	EF	7E 56 03	D4 00D64 DD 00D66 FB 00D68 04 00D6F	CLRL PUSHL CALLS RET	-(SP) R6 #3, XPO\$CLOSE	1004

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 STCHDR - Process the .SEND TOC n captions temp 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                                                  VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
                                                                                                                                                                                        Page (3)
                                   %SBTTL 'STCHDR - Process the .SEND TOC n captions temp file' GLOBAL ROUTINE stchdr : NOVALUE =
   1005
1006
1007
1008
1009
1010
1011
1015
1016
1017
1018
                                      FUNCTIONAL DESCRIPTION:
                                               This routine reads the temp file, which contains page references and .SEND TOC records.
                                               The .SEND TOC records are formatted into captions.
                                      FORMAL PARAMETERS:
                                               None
                                      IMPLICIT INPUTS:
                                               nxtstc - next .SEND TOC "n" value to process
                                               cmdblk - command line information block
                                      IMPLICIT OUTPUTS:
                                               None
                                      ROUTINE VALUE:
                                      COMPLETION CODES:
                                               None
                                      SIDE EFFECTS:
                                               None
                       1038
1039
1040
1041
1042
1043
1044
1046
1047
1048
1049
                                         BEGIN
                                            Walk through the file until there are no more .SEND TOC 'n' groups left to process only if we are processing HL 1's
                                         WHILE (.nxtstc NEQ infinity) AND (.cmdblk [contents$g_headers] NEQ 0) DO
                                               BEGIN
                                               LOCAL
                                                    stcn,
first_record;
                                              first_record = true;
stcn = .nxtstc;
nxtstc = infinity;
                                                                                                             Value we're processing this time
                                                                                                            Value to process next time
                       1054
1055
1056
1057
                                               $xpo_open (iob = stciob, options = input, attributes = BINARY
%IF %BLISS (BLISS32) %THEN , failure = open_error %FI
                                               WHILE $xpo_get (iob = stciob, fullwords = 2) EQL xpo$_normal DO
                       1060
                                                     BEGIN
```

CAF

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 STCHDR - Process the .SEND TOC n captions temp 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                                       VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
                                                                                                                                                                       Page
   Process a record group
                                                BIND
                                                      record_header = .stciob [iob$a_data] : VECTOR;
                                                major = .record_header [0];
minor = .record_header [1];
                                                SELECTONE true OF
                                                      SET
                                                      [(.major EQL maj_runoff) AND (.minor EQL min_page)] :
                                                              Process a page reference
                                                           $xpo_get (iob = stciob, fullwords = page_sct_size);
BEGIN
                                                           BIND
                                                                page_ref = .stciob [iob$a_data] : VECTOR;
                     1084
1085
1086
1087
1088
1089
1090
1091
1093
1094
1095
1096
1099
                                                                pagen : VECTOR;
                                                           INCR i FROM 0 TO page_sct_size - 1 DO
    pagen [.i] = .page_ref [.i];
                                                           END:
                                                      [(.major EQL maj_send) AND (ABS (.minor) NEQ .stcn)] :
                                                              A .SEND TOC with a value of n which does not match the value we're processing. Remember it if it is the smallest
                                                              one which is larger than the value we're processing.
                                                           IF ABS (.minor) GTR .stcn THEN nxtstc = MIN (ABS (.minor), .nxtstc);
                      1101
                                                             Now skip over the text if any
                      1105
                                                           $xpo_get (iob = stciob, fullwords = 1);
                     1106
1107
1108
1109
                                                           If .(.stciob [iob$a_data]) NEQ 0
                                                           THEN
                                                                $xpo_get (iob = stciob,
fullwords = CH$ALLOCATION (.(.stciob [iob$a_data])));
                      1110
                                                           END:
                      1114
                                                      [(.major EQL maj_send) AND (.minor EQL .stcn)] :
                                                           BEGIN
                      1116
                                                              A caption title
```

CAF

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 STCHDR - Process the .SEND TOC n captions temp 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                         VAX-11 Bliss-32 V4.0-742 

[RUNOFF.SRC]CAPTION.BLI;1
                                                                                                                                                    Page 30 (3)
   LOCAL
                                                         ptr.
len;
                                                    IF .first_record AND .stcn LEQ 3
THEN
                                                         BEGIN
                                                           First one seen - generate title
                                                         If .cmdblk [contents$v_tms11]
                                                         THEN
                                                              BEGIN
                                                              BIND
                                                                   tms_titles = UPLIT (0, tms_ex, tms_fg, tms_tb) : VECTOR;
                                                              put ('');
                                                              If .hl_n NEQ 0 THEN put ('[va15]');
                                                              put ($str_concat ('*cOn*', .tms_titles [.stcn], 'aa'));
END
                                                         ELSE
                                                              BEGIN
                                                              BIND
                                                                  rno_titles = UPLIT (0, rno_ex, rno_fg, rno_tb) : VECTOR,
title = .rno_titles [.stcn] : $str_descriptor ();
                                                              put ('.TEST PAGE 7');
If .hl_n NEQ 0 THEN put ('.SK2') ELSE put ('.SK1');
                                                              IF .indents [0] NEQ 0
                                                              THEN
                                                                   put ($str_concat ('.I-', $str_ascii (.indents [0])));
                                                             put (title);
put ('.BLANK');
END;
                                                         first_record = false;
                                                         END:
                                                    hl_n = 1;
                                                    IF .cmdblk [contents$v_tms11] THEN literal_text ('*c1n*');
                                                      Process the record
```

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 STCHDR - Process the .SEND TOC n captions temp 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                                                  VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
                                                                                                                                                                                       Page 31 (3)
   $xpo_get (iob = stciob, fullwords = 1);
len = .(.stciob [iob$a_data]);
$xpo_get (iob = stciob, fullwords = CH$ALLOCATION (.len));
ptr = CH$FIND_CH (.len, CH$PTR (.stciob [iob$a_data]), %C',');
                                                                 If .cmdblk [contents$v_include_sections]
                                                                 THEN
                                                                       BEGIN
                                                                          Generate a section number if the user requested one.
                                                                       IF NOT CHSFAIL (.ptr)
                                                                       THEN
                                                                            BEGIN
                                                                               User supplied a section number
                         194
195
196
197
                                                                             LOCAL
                                                                                  sec_l,
                                                                                   sec_p;
                                                                            sec_p = CH$PTR (.stciob [iob$a_data]);
sec_l = CH$DIFF (.ptr, .sec_p);
                                                                             strip (sec_l, sec_p);
                                                                             IF .sec_L NEQ 0
                                                                             THEN
                                                                                  BEGIN
                                                                                     User specified a non-null section number
                                                                                       .pagen [sct_typ] NEQ 0
                                                                                   THEN
                                                                                        BEGIN
                                                                                           Document is divided into sections
                                                                                        ptrsct = CH$PTR (txtsct);
                                                                                        lensct = pacsec (pagen, ptrsct);
fmttxt (.lensct, CH$PTR (txtsct));
fmttxt (1, CH$PTR (UPLIT ('-')));
                                                                                        END:
                                                                                  fmttxt (.sec_l, .sec_p);
                                                                                   IF NOT .cmdblk [contents$v_tms11]
                                                                                        write_char (%C' ', counts_visually);
                                                                                  END;
                                                                            END;
                                                                       END:
                                                                 IF .cmdblk [contents$v_tms11]
```

CAF

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 STCHDR - Process the .SEND TOC n captions temp 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                         VAX-11 Bliss-32 V4.0-742 
ERUNOFF.SRCJCAPTION.BLI:1
                                                                                                                                                    Page 32 (3)
   THEN
                                                         write_char (%C'a')
                                                    ELSE
                                                         pad ((.indents [0] + .indents [1] - .extlin));
                                                       Generate page number to get its length.
                                                     ptrpag = CH$PTR (txtpag);
                                                    IF NOT .cmdblk [contents$v_standard_page]
THEN_____
                                                         BEGIN
                                                           Use running page number
                                                          lenpag = pacbas (.pagen [sct_run_page], ptrpag, 10);
                                                         END
                                                    ELSE
                                                         BEGIN
                                                           Supply the usual page number
                                                          lenpag = pacpag (pagen, ptrpag);
                                                     rmargin = .cmdblk [contents$g_page_width] - .lenpag - 1;
                                                     wrap = .extlin;
                                                      Process the text
                                                     IF CHSFAIL (.ptr)
                                                    ELSE ptr = CH$PTR (.stciob [iob$a_data])
                                                     THEN
                                                         BEGIN
                                                            There was a section number in the line. Point past
                                                            the comma and update the length.
                                                         ptr = CH$PLUS (.ptr, 1);
len = .len - CH$DIFF (.ptr, CH$PTR (.stciob [iob$a_data]));
                                                         END:
                                                     strip (len, ptr);
                                                     fmttxt (.len, .ptr);
                                                       Insert page reference into page if desired.
                                                     insref ();
                                                       Write line to output file
                                                    put ((.intlin, CH$PTR (line)));
clr_line ();
END;
```

CAF VO4

: F

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 STCHDR - Process the .SEND TOC n captions temp 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                                      VAX-11 Bliss-32 V4.0-742 
ERUNOFF.SRCJCAPTION.BLI:1
                                                                                                                                                                      Page (33)
                                                     [(.major EQL maj_send) AND (.minor EQL -.stcn)] :
    BEGIN
   Insert directly into .RNT file
                                                          LOCAL len:
                                                           $xpo_get (iob = stciob, fullwords = 1);
len = .(.stciob [iob$a_data]);
$xpo_get (iob = stciob, fullwords = CH$ALLOCATION (.len));
insrnt (.len, CH$PTR (.stciob [iob$a_data]));
                                                           END:
                                                     TES:
                                                END:
                                          $xpo_close (iob = stciob, options = remember);
                                           END:
                                     END:
                                                                                                   .PSECT $PLIT$, NOWRT, NOEXE, 2
                                                                   00000000
                                                                                0006C P.ABH:
                                                                                                   .LONG
                                        00000000 00000000 00000000
                                                                                                   .ADDRESS TMS_EX, TMS_FG, TMS_TB
                                                                                0007C P.ABJ:
0007C P.ABJ:
00082 P.ABM:
00087 P.ABN:
                                                                                                   .BLKB
                                                                     76
63
40
                                                                61
30
                                                                                                              \[va15]\
                                                                                                   .ASCII
                                                                                                              \*c0n*\
                                                                                                              /99/
                                                                                                   .ASCII
                                                                                00089
                                                                                                   .BLKB
                                       0008C P.ABQ:
                                                                                                   .LONG
                                                                                                   .ADDRESS RNO_EX, RNO_FG, RNO_TB
                                                                                00090
                     20
                                47
                          45
                                                                                00090
                                                                4BBDC
                                                                                000A8 P.ABS:
                                                                                                   .ASCII
                                                                                OOOAC P.ABT:
                                                                                                   .ASCII
                                                                                                              1.SK1\
                                                                                000B0 P.ABV:
                                                                                                   .ASCII
                                                4B
                                                                                000B3
                                                                                       P.ABX:
                                                                                                              \.BLANK\
                                                                                                   .ASCII
                                                                                000B9
                                                                                                    BLKB
                                     00
                                          00
                                                00
                                                                                OOOBC P.ABY:
                                                                                                              \*c1n*\<0><0><0>
                                                                                000C4 P.ABZ:
                                                                                                   .ASCII
                                                                                                              \-\<0><0><0>
                                                                                                   .PSECT
                                                                                                             SOWNS, NOEXE, 2
                                                                                00090 $STR$STRING:
                                                                        0000
                                                                   00000000.
                                                                                                   .BYTE
                                                                                                    ADDRESS P.ABI
                                                                                        $STR$STRING:
                                                                                                   . WORD
                                                                                0009A
0009C
000A0
                                                                                                   .BYTE
                                                                                                    ADDRESS P. ABJ
                                                                                        $STR$STRINGO:
                                                                                                   . WORD
```

CAPTION - Generate fi STCHDR - Process the	gure, .SENĎ	table and	exam	ple	e ca 1	12 5-Sep-19 4-Sep-19	84 23:50 84 13:05	:23 VAX-11 Bliss-32 V4.0-742 :37 [RUNOFF.SRC]CAPTION.BLI;1	Page	(3)
		00	01 00000 000	E.	000A2 000A4 000A8	\$STR\$ST	.BYTE .ADDRES RING2: .WORD	14.1 S P.ABM	;	
		00	01 0 00000 000	E.	000AC 000AC 000B0	\$STR\$ST	.BYTE .ADDRES	14, 1 S P.ABN		
		00	01 0 00000 000	E04	000B2 000B4 000B8	\$STR\$ST	RING:	12 14, 1 S P. ABR		
		00	01 0 00000 000	0.	000BA 000BC 000C0	\$STR\$ST	RING:	14. 1 S P.ABS	;	
		00	01 0 00000 000	0'	000C2 000C4 000C8	\$STR\$ST	RINGO:	14. 1 S P.ABT	:	
		00	01 0 00000 000	0.	000CA 000CC 000D0	\$STR\$ST	.WORD .BYTE .ADDRES	34, 1 S P.ABV	:	
		00	01 0 00000	E.	000D2 000D4		.WORD .BYTE .ADDRES	6 14, 1 S P.ABX		
						TMS_TIT	LES= LES=	P.ABH P.ABQ		
							.PSECT	\$CODE\$,NOWRT,2		
					00000		.ENTRY	STCHDR, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,- R11	: 1	006
	5B 5A	000000006 000000006 000000006	EF	9E 9E 9E C2	00002		MOVAB	IOB\$+68, R11 \$STR\$TARGET, R10		
7555555)E	000000000	18 EF	C2 D1	00017 0001A	15:	SUBL2 CMPL	R11 IOB\$+68, R11 \$STR\$TARGET, R10 IOB\$+52, R9 #24, SP NXTSTC, #2147483647	1	045
		00000000G	EF EF 18 EF 06 EF	D1 13 D5	00025		MOVAB MOVAB SUBL2 CMPL BEQL TSTL	2\$ CMDBLK+4 3\$		
	58			12 04 00	0002F 00030	2\$: 3\$:	RET		1	052
000000000	56 EF	00000000G 7FFFFFFF 00010001	EF 8F	DO DO	00033 0003A		MOVL	NXTSTC, STCN #2147483647, NXTSTC	1	052 053 054 057
FA F8	A9	00010001 000000006	8F 01 FF	DO DO DO S O S O S O S O S O S O S O S O	00045 0004D		MOVB PUSHAR	#65557, IOB\$+46 #1, IOB\$+44 OPEN ERROR	: 10	05/
		СС	7E	04 9F	00057 00059		CLRL	-(SP)		
00000000	69		01 EFF 801 EFF A0000 EF	FB B0 90 90 9F	00002 00009 00017 00017 00027 00027 00027 00028 00045 00045 00068 00068 00068	48:	MOVL MOVL BISL2 MOVB PUSHAB CLRL PUSHAB CALLS MOVW MOVB MOVB PUSHAB	#5, XPU\$UPEN #8, IOB\$+52 #2, IOR\$+54	11	059
02 F8	A9 A9	000000006	06 EF	90 9F	0006A 0006E		MOVB PUSHAB	#1, FIRST RECORD NXTSTC, STCN #2147483647, NXTSTC #65537, IOB\$+46 #1, IOB\$+44 OPEN_ERROR -(SP) IOB\$ #3, XPO\$OPEN #8, IOB\$+52 #2, IOB\$+54 #6, IOB\$+44 XPO\$FAILURE		

CAI

:

MOVL

MOVL

0000000G

0000000G

CA

:::

...........

........

...........

1105

**

PUSHAB

\$STR\$STRING

CAI

32\$:

00000000G EF

-(SP)

#5, XSTSCOPY

CC

0000000G

00000000G

0000000V

0000000G

FA F8

10B\$ #3. XPOSGET STC10B+56

LEN #2, INSRNT

#16, IOB\$+46 #2, IOB\$+44 XPO\$FAILURE

IÒBS #3, XPOSCLOSE

-(SP)

PUSHL

PUSHL

CALLS

BISB2

MOVB

PUSHAB CLRL PUSHAB

CALLS

1301

1045

CA

CAPTION VO4-000 CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 STCHDR - Process the .SEND TOC n captions temp 14-Sep-1984 13:05:37

VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1

Page 42 (3)

04 007BE

RET

; 1311

; Routine Size: 1983 bytes, Routine Base: \$CODE\$ + OD70

CAF

.....

```
CAPTION
VO4-000
                   CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 STRIP - Strip leading and trailing whitespace f 14-Sep-1984 13:05:37
                                                                                                            VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
                    *SBTTL 'STRIP - Strip leading and trailing whitespace from text'
ROUTINE strip (l_addr, p_addr) : NOVALUE =
  1000
  1001
                                FUNCTIONAL DESCRIPTION:
                                       This routine strips leading and trailing whitespace from the input string
  1006
1007
1008
                                FORMAL PARAMETERS:
                                       l_addr - address of length of string
  1010
                                       p_addr - address of CH$PTR to string
  1011
  1012
                                IMPLICIT INPUTS:
  1014
                                       None
  1015
  1016
                                IMPLICIT OUTPUTS:
  1018
                                       The length and string pointer are modified to reflect stripped whitespace
  1019
 ROUTINE VALUE:
                                COMPLETION CODES:
                                       None
                                SIDE EFFECTS:
                                       None
                                  BEGIN
                                  LOCAL
                                       len.
                                       ptr:
                                  len = ..l_addr;
                                  ptr = ..p_addr;
                                  DECR i FROM .len TO 1 DO
                                       BEGIN
                                         Remove leading whitespace from section number
                                       LOCAL
                                            ch;
                                       ch = CH$RCHAR (.ptr);
                                       If (.ch EQL %C' ') OR (.ch EQL tab)
                                       THEN
                                            BEGIN
                                            len = .len - 1;
ptr = CH$PLUS (.ptr, 1);
END
```

```
CAPTION
VO4-000
                      CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 STRIP - Strip leading and trailing whitespace f 14-Sep-1984 13:05:37
                                                                                                                           VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
  ELSE
                                                  EXITLOOP;
                                             END:
                                       .p_addr = .ptr;
ptr = CH$PLUS (.ptr, .len - 1);
                                                                                                     ! Set pointer to beginning of text ! Point to last character
                                       DECR i FROM .len TO 1 DO
                                             BEGIN
                                               Remove trailing blanks and tabs
                                             LOCAL
                                                  ch:
                                             ch = CH$RCHAR (.ptr);
                                             IF (.ch EQL %C' ') OR (.ch EQL tab)
                                             THEN
                                                  BEGIN
                                                  len = .len - 1;
ptr = CH$PLUS (.ptr, -1);
END
                                             ELSE
                                                  EXITLOOP;
                                            END:
                                       WHILE .len GEQ 3 DO BEGIN
                                               Strip trailing emphasis
                                             IF CH$RCHAR (CH$PLUS (.ptr, -2)) EQL rintes
                                             THEN
                                                  BEGIN
                                                  len = .len - 3;
ptr = CH$PLUS (.ptr, -3);
END
                                            ELSE
                                                  EXITLOOP:
                                            END:
                                        l_addr = .len;
                                                                                                    ! Return length of string
                                       END;
  1102
                                                                                                                   Save R2,R3
aL_ADDR, LEN
aP_ADDR, PTR
1(R0), I
                                                                                            STRIP:
                                                                                                        .WORD
                                                      50
52
51
                                                                                                        MOVL
                                                                                                        MOVL
                                                                                                        MOVAB
                                                                                                        BRB
```

CAI

CAPTION V04-000	CAPTION - Generate fig STRIP - Strip leading	gure, ta and tra	ble and e iling whi	xampl tespa	e ca 1 ce f 1	M 12 5-Sep- 4-Sep-	984 23:50 984 13:05	:23 VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1	Page 4
		53	6	3 01	00010	1\$:	MOVZBL	(PTR) CH CH, #32	; 136 ; 136
		09	5	3 D1	00018 00018		CMPL BNEQ	(PTR) CH CH, #32 2\$ CH, #9	
		FC	5	2 06	0001b	2\$:	DECL INCL SORGTR	PTR	1366
	80	EC BC 52 51	FF A04	2 96	00024 00028 00020	3\$: 4\$:	MOVZBL CMPL BEQL CMPL BNEQ DECL INCL SOBGTR MOVAB MOVAB MOVAB BRB MOVZBL	PTR, ap ADDR -1(LEN)[PTR], PTR	1366 1367 1377 1377
		53	5	9/	00031 00033 00036	5\$:	BRB MOVZBL CMPL	7\$ (PTR), CH CH, #32 6\$ CH, #9 8\$ LEN PTR	138
		09	5	7 12	0003B 0003E		CMPL	CH, #9 8\$	
		EC 03	55	D D7	00040	6\$: 7\$:	CMPL BEQL CMPL BNEQ DECL SOBGTR CMPL BLSS CMPB BNEQ SUBL2 SUBL2	PTR I, 5\$	1390 1397 1377 1398
		10	FE A	D D1	00047 0004A	8\$:	BLSS	I, 5\$ LEN, #3 9\$ -2(PTR), #28	:
			6	12	00050		BNEQ	9\$	1403
		50 52	Ŏ 0 E 5	5 C2	00055		SUBL2	#3, LEN #3, PTR 8\$	140
	04	BC	5	04	0005A	9\$:	BRB MOVL RET	LEN, aL_ADDR	1400 1400 1400 1410 1410

; Routine Size: 95 bytes, Routine Base: \$CODE\$ + 152F

```
N 12
15-Sep-1984 23:50:23
14-Sep-1984 13:05:37
CAPTION
VO4-000
                         CAPTION - Generate figure, table and example ca
INSRNT - Insert text directly into .RNT file
                                                                                                                                           VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI;1
: 1104
: 1105
: 1106
: 1107
                                      %SBTTL 'INSRNT - Insert text directly into .RNT file' GLOBAL ROUTINE insrnt (len, ptr) : NOVALUE =
                          1416
1417
1418
1419
   1108
                                         FUNCTIONAL DESCRIPTION:
   1110
                                                   This routine inserts the given text directly into the .RNT file
   1111
                                         FORMAL PARAMETERS:
                                                  len - length of text
ptr - CH$PTR to text
                           IMPLICIT INPUTS:
                                                  cmdblk - command line information block
  1120
1121
1122
1123
1124
1125
1126
1127
1133
1133
1133
1138
1139
                                         IMPLICIT OUTPUTS:
                                                   None
                                         ROUTINE VALUE:
                                         COMPLETION CODES:
                                                   None
                                         SIDE EFFECTS:
                                                  None
                                            BEGIN
                                            IF .len GTR 0 THEN
  1140
1141
1142
1143
11445
1146
1146
1146
1151
1156
1157
1158
1159
                                                   BEGIN
                                                      There is something to process
                                                  hl_n = -1;
clr_line ();
line_indent = .indents [0];
wrap = .line_indent;
extlin = .line_indent;
                                                   rmargin = .cmdblk [contents$g_page_width];
                                                   If .cmdblk [contents$v_tms11] THEN write_char (%C'<');</pre>
                                                   fmttxt (.len, .ptr);
                                                   IF .cmdblk [contents$v_tms11] THEN write_char (%C'>');
                                                   put ((.intlin, CH$PTR (line)));
: 1158
: 1159
: 1160
                                                  clr_line ();
END;
```

CAPTION CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 VAX-11 Bliss-32 V4.0-742 Page 47 V04-000 INSRNT - Insert text directly into .RNT file 14-Sep-1984 13:05:37 [RUNOFF.SRC]CAPTION.BLI;1 (5) ; 1161 1473 1 END;

	0000000G	5987555555 555555555 EF2	000000006 000000006 000000006 000000006 000000	EFFFFFFFFF BEEF 8CO 01	03FC 00000 9E 00002 9E 00010 9E 00017 9E 0001E 9E 00025 9E 00025 9E 00033 C2 0003A D5 0003D 14 00040 04 00042 CE 0004A D4 0004D	ENTRY MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB SUBL2 TSTL BGTR RET MNEGL MOVAB CLRL	INSRNT, Save R2,R3,R4,R5,R6,R7,R8,R9 IOB\$+68, R9 \$STR\$TARGET, R8 LINE_INDENT, R7 EXTLIN, R6 LINE, R5 CMDBLK, R4 INTLIN, R3 LP, R2 #8, SP LEN 1\$ #1, HL N LINE, CP INTLIN	1450 1456 1457
08	00000000G 00000000G	67 EF 66 EF 64 B2	20 18	636647741C23C23C21	D4 0004F D0 00051 D0 00055 D0 0005C D0 0005F E1 00067	CLRL MOVL MOVL MOVL BBC MOVB INCL	EXTLIN INDENTS, LINE INDENT LINE_INDENT, QRAP LINE_INDENT, EXTLIN CMDBCK+24, RMARGIN #1, CMDBLK, 2\$ #60, alp	1458 1459 1460 1461 1463
08	00000000G 00	7E EF 64 B2	04	63 AC 02 01 3E 62	D6 00071 7D 00073 2\$: FB 00077 E1 0007E 90 00082 D6 00086	INCL MOVQ CALLS BBC MOVB INCL	INTLIN LEN, -(SP) #2, FMTTXT #1, CMDBLK, 3\$ #62, alp	1465 1467
	02 03 04	6E AE AE AE	00000000G OC	36633 6600 665 758 758	D6 00088 B0 0008A 90 0008D 90 00091 9E 00095 9F 00099 D4 0009F DD 000A1 9F 000A3	INCL MOVW MOVB MOVAB PUSHAB CLRL PUSHL PUSHAB	INTLIN INTLIN, \$STR\$STRING #14, \$STR\$STRING+2 #1, \$STR\$STRING+3 LINE, \$STR\$STRING+4 STR\$FAILURE -(SP) R8 \$STR\$STRING	1469
	00000000G 00000000G E8	EF 50 EF 69 A9	000000006	AE 7058 568 7 F 7 A 9 3 1	9F 000A3 D4 000A6 FB 000A8 3C 000AF C0 000B2 9E 000B9 90 000BC 9F 000C0 D4 000C6 9F 000C8 FB 000CB E1 000D2 FB 000D6	CLRL CALLS MOVZWL ADDL2 MOVAB MOVB PUSHAB	-(SP) #5, XST\$COPY TMPSTR, R0 R0, CHROUT \$10B\$OUTPUT, 10B\$+68 #7, 10B\$+44 XPO\$FAILURE -(SP)	
07	00000000G 00000000G	EF 64 EF	ВС	A9 03 01 00	9F 000C8 FB 000CB E1 000D2 FB 000D6	CLRL PUSHAB CALLS BBC CALLS	IOB\$ #3. XPO\$PUT #1. CMDBLK, 4\$ #0. SPLIT	

```
CAPTION - Generate figure, table and example ca 15-Sep-1984 23:50:23 INSRNT - Insert text directly into .RNT file 14-Sep-1984 13:05:37
CAPTION
VO4-000
                                                                                                                                VAX-11 Bliss-32 V4.0-742 [RUNOFF.SRC]CAPTION.BLI:1
                                                                                   9E
04
04
                                                         62
                                                                             65
63
66
                                                                                                                       LINE, LP
                                                                                                            MOVAB
                                                                                                                                                                                         1470
                                                                                                            CLRL
CLRL
RET
                                                                                                                       EXTLIN
                                                                                                                                                                                       : 1473
; Routine Size: 229 bytes,
                                             Routine Base: $CODE$ + 158E
: 1162
: 1163
: 1164
                                                                                                        ! End of module
                                                         PSECT SUMMARY
           Name
                                                Bytes
                                                                                            Attributes
                                                              NOVEC, NOWRT,
NOVEC, WRT,
NOVEC, NOWRT,
                                                                                  RD , NOEXE , NOSHR , LCL , RD , NOEXE , NOSHR , LCL , RD , EXE , NOSHR , LCL ,
                                                                                                                              CON, NOPIC, ALIGN(2)
CON, NOPIC, ALIGN(2)
CON, NOPIC, ALIGN(2)
    SPLITS.
                                                                                                                     REL.
    SOWNS
    $CODE$
                                              Library Statistics
                                                                 ----- Symbols -----
                                                                                                              Pages
                                                                                                                                Processing
           File
                                                                 Total
                                                                                          Percent
                                                                              Loaded
                                                                                                              Mapped
                                                                                                                                Time
    _$255$DUA28:[SYSLIB]XPORT.L32:1
                                                                    590
                                                                                   156
                                                                                                                252
                                                                                                   26
                                                                                                                                  00:00.1
                                                          COMMAND QUALIFIERS
           BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS$: CAPTION/OBJ=OBJ$: CAPTION MSRC$: CAPTION/UPDATE=(ENH$: CAPTION)
                       5747 code + 416 data bytes
02:43.9
04:53.0
```

Size: Run Time: Elapsed Time: Lines/CPU Min:

Lexemes/CPU-Min: 96060 : Memory Used: 901 pages : Compilation Complete CE

0337 AH-BT13A-SE

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